

9900097

THUE UNIVERD SHAVES OF AVIERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

MICCOS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC EPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE STOCKLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR TING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE WROSE. OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'90B72'

In Testimony Mercest, I have hereunto set my hand and caused the seal of the Mant Daviety Protection Office to be affixed at the City of Washington, D.C. this fifth day of Tebruary, in the year of our Lord two thousand one.

Hlast:

Clank fort

Acting Commissioner Plant Variety Protection Office Agricultural Marketing Service Havy of Agriculture

REPRODUCE LOCALLY. Include form number and date on all	reproductions.		ļ F	ORM APPROVE	D - OMB NO. 0581-0055		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION - PLANT VARIETY PROTECTION OF		The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a).					
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and Information collection burden statement on reverse)			Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).				
1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)			2. EXPERIMENTAL NUMBER	3. VARIETY NAI	ME		
Pioneer Hi-Bred International, Inc.				90B72			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and C	Country)		5. TELEPHONE (include area code)		FICIAL USE ONLY		
7300 NW 62nd Ave			515-270-3582	PVPO NUMBER	00097		
P.O. Box 1004 Johnston, Iowa 50131-1004			6. FAX (include area code)	F DATE			
Johnston, 10 Ha John 1001			515-253-2288	il u	27 -98		
7. GENUS AND SPECIES NAME	8. FAMILY NAME	(Botanica	<u> </u>	G	EXAMINATION FEE:		
Glycine max L.	Lea	, iuminosae	,	Es 24	′50°°		
		,		F S C4 E DATE			
9. CROP KIND NAME (Common name) Soybean		•			7-98		
	<u> </u>			E CERTIFICAT	ΠΟΝ FEE:		
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGAN Corporation	IZA HON (corporation, p	partnership, as	sociation, etc.) (Common name)		5 0		
11. IF INCORPORATED, GIVE STATE OF INCORPORATION			12. DATE OF INCORPORATION	DATE	jugurunga di		
Iowa			May 6, 1926	10/	6/00		
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO				14. TELEPHONI	E (include area code)		
John Grace Dr. Daria Schmidt Jfd 7300 NW 62nd Ave. 1959	Jean B	Bromert (Co	pv)	515-270-3	3582		
7300 NW 62nd Ave. 19 Se	FT.2000 7100 N	NW 62nd A	ve.	15. FAX (inc	clude area code)		
P.O. Box 1004	P.O. B	30x 1000		Ì			
Johnston, Iowa 50131-1004	Johnst	on, Iowa 5	0131-1000	515-253-2	!288		
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Foliation of the Control	low instructions on r	reverse)					
a. Exhibit A, Origin and Breeding History of the Variety							
 b. Exhibit B. Statement of Distinctness c. Exhibit C. Objective Description of the Variety 	1	4.					
d. Additional Description of the Variety							
e. 🗹 Exhibit E. Statement of the Basis of the Applicant's Ownership	•						
f. Voucher Sample (2,600 viable untreated seeds or, for tuber pro	ppagated varieties ve	erification tha	t tissue culture will be deposited and m	aintained in a publi	c repository)		
g. Y Filing and Examination Fee (\$2450), made payable to "Treasure			PVPO)				
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD YES If "yes," answer items 18 and 19 below)		ONLY, AS A	•	n 83(a) of the Plant	Variety Protection Act)?		
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMIT			"YES" TO ITEM 18, WHICH CLASSES C	F PRODUCTION BE	EYOND BREEDER SEED?		
GENERATIONS? YES NO			FOUNDATION REGISTER	RED CERT	NFIED		
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN	RELEASED, USED, O	OFFERED FC	R SALE, OR MARKETED IN THE U.S. OF	ROTHER COUNTRI	E\$?		
YES (If "yes," give names of countries and dates)	✓ NO						
			end to discount of the control of th				
 The applicant(s) declare that a viable sample of basic seed of the variety applicable, or for a tuber propagated variety a tissue culture will be depo 					such regulations as may be		
The undersioned applicant(s) is/are) the owner(s) of this sexually reproc Section 41, and is entitled to protection under the provisions of Section	luced or tuber propa	aated plant v	variety, and believe(s) that the variety is		rm, and stable as required		
Applicant(s) is(are) informed that false representation herein can jeopan							
SIGNATURE OF APPLICANT (Owner(s))		SIGNATUR	E OF APPLICANT (Owner(s))				
Diffurtrace the					•		
Name (Piese print or type)	٠,	Name (PI	ease print or type)				
D. John Grace III							
CAPACITY OR TITLE DATE	/ /-	CAPACITY	OR TITLE		DATE		
Soybean Research Coordinator	20/98						
SD 470 (04-95) (Previous editions are to be destroyed)			(See reverse for instructions and	Information coll	action hurden statement		

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 90B72

Variety 90B72 evolved from a 1994 cross of 9042/5/9172/4/ST2250/3/9392//9392/ 40-3-2.

It is an F4-derived variety which was advanced to the F4 generation by modified single seed descent. The F5 progeny row of 90B72 was grown in summer 1996. Subsequently, 90B72 has undergone 2 years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of agronomic performance, maturity and resistance to labeled Roundup Brand herbicides variety 90B72 was given a commercial number.

One acre of 90B72 (breeders seed) was grown in summer 1997. 90 acres of parent seedstock (foundation seed equivalent) were grown in the winter 1996-1997 and 3200 bushels harvested.

Exhibit B. Statement of Distinctness

Soybean Variety 90B72

Variety 90B72 is most similar to variety J080. Both varieties have purple flowers, gray pubescence, and yellow seeds with gray hilas. However, 90B72 is resistant to labeled Roundup brand herbicides while J080 is susceptible.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SEED DIVISION - PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY

SOYBEAN (Glycine max L.) NAME OF APPLICANT(S) TEMPORARY DESIGNATION VARIETY NAME Pioneer Hi-Bred International, Inc. 90B72 ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) FOR OFFICIAL USE ONLY 7300 N.W. 62nd Ave., P.O. Box 1004 PVPO NUMBER 9900097 Johnston, IA 50131-1004 Choose the appropriate response which characterizes the variety in the features described below. When the number of significant digits in your answer is fewer than the number of boxes provided, place a zero on the first box when number is 9 or less (e.g., 0 9). Starred characters 🗼 are considered fundamental to an adequate soybean variety description. Other characters should be described when information is available. 1. SEED SHAPE: 1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 2 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)4 = Elongate Flattened (L/T ratio > 1.2; T/W > 1.2) ★ 2. SEED COAT COLOR: (Mature Seed) 1 = Yellow 2 = Green 3 = Brown 4 = Black 5 = Other (Specify) 3. SEED COAT LUSTER: (Mature Hand Shelled Seed) 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebsoy'; 'Gasoy 17') ★4. SEED SIZE: (Mature Seed) Grams per 100 seeds ★ 5. HILUM COLOR: (Mature Seed) 1 = Buff 2 = Yellow 3 = Brown 4 = Gray 5 = Imperfect Black 6 = Black 7 = Other (Specify) ★ 6. COTYLEDON COLOR: (Mature Seed) 1 = Yellow 2 = Green **★ 7. SEED PROTEIN PEROXIDASE ACTIVITY:** 1 = Low 2 = High ★ 8. SEED PROTEIN ELECTROPHORETIC BAND: 1 = Type A (SP1 a) 2 = Type B (SP1 b) ★ 9. HYPOCOTYL COLOR: 1 = Green only ('Evans'; 'Davis') 2 = Green with bronze band below cotyledons ('Woodworth'; 'Tracy') 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A') ★ 10. LEAFLET SHAPE: 3 1 = Lanceolate 2 = Oval 3 = Ovate 4 = Other (Specify)

(Edition of 2-82 is obsolete.)

FORM LMGS-470-57 (6-83)

Variety Name 90B72

11. LEAFLET SIZE: 2 1 = Small (Amsoy 71; 'AS312') 2 = Medium ("Corsoy 79; 'Gasoy 17") 3 = Large ("Crawford"; 'Tracy") 2 = Medium Green ("Corsoy 79; 'Braxton") 3 = Dark Green ("Gnome"; 'Tracy") 2 = Medium Green ("Corsoy 79; 'Braxton") 3 = Dark Green ("Gnome"; 'Tracy") 2 = Medium Green ("Corsoy 79; 'Braxton") 3 = Dark Green ("Gnome"; 'Tracy") 3 = White with purple throat 14. POD COLOR: 2 1 = Tan		•
2		2 1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; 'Gasoy 17')
2		2 1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton')
14. POD COLOR: 2	*	13. FLOWER COLOR:
2		2 1 = White 2 = Purple 3 = White with purple throat
15. PLANT PUBESCENCE COLOR: 1	*	14. POD COLOR:
1 1 = Gray 2 = Brown (Tawny) 16. PLANT TYPES: 3 1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan') ★ 17. PLANT HABIT: 3 1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsey'; 'Improved Pelican') ★ 18. MATURITY GROUP: 0 3 1 = 000 2 = 00 3 = 0 4 = 1 5 = II 6 = III 7 = IV 8 = V 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X ★ 19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) BACTERIAL DISEASES: ★ 0 Bacterial Pustule (Xanthomonas plaseoli var. sojensis) ★ 1 Bacterial Bilght (Pseudomonas glycinea) ★ 0 Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: ★ 1 Brown Spot (Septoria glycines) Frogeye Leef Spot (Cercospora sojina) ★ 0 Race 1 0 Race 2 0 Race 3 0 Race 4 0 Race 5 Other (Specify) 0 Target Spot (Corynespora casslicola) 0 Downy Mildew (Peronospora trifoliorum var. manshurica) 0 Powdery Mildew (Microsphaera diffusa) ★ 0 Brown Stem Rot (Cephalosportum gregatum)		L J Van 2 Blown 3 - Diack
16. PLANT TYPES: 3	×	15. PLANT PUBESCENCE COLOR:
3 1 = Slender ('Essex', 'Amsoy 71') 3 = Bushy ('Gnome'; 'Govan') ★ 17. PLANT HABIT: 3 1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican') ★ 18. MATURITY GROUP: 0 3 1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X ★ 19. DISEASE REACTION: (Enter 0 = Not Tosted; 1 = Susceptible; 2 = Resistant) BACTERIAL DISEASES: ★ 0 Bacterial Pustule (Xanthomonas phaseoli var. sojensis) ★ 1 Bacterial Blight (Pseudomonas glycinea) ★ 0 Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: ★ 1 Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) ★ 0 Race 1 0 Race 2 0 Race 3 0 Race 4 0 Race 5 Other (Specify) 0 Target Spot (Corynespora cassiicola) 0 Downy Mildew (Peronospora trifoliorum var. manshurica) Powdery Mildew (Microsphaera diffusa) ★ 0 Brown Stem Rot (Cephalosporium gregatum)		
# 17. PLANT HABIT: 3		
3 1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican') * 18. MATURITY GROUP: 0 3 1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X * 19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) BACTERIAL DISEASES: * 0 Bacterial Pustule (Xanthomonas phaseoli var. sojensis) * 1 Bacterial Blight (Pseudomonas glycinea) * 0 Wildfire (Pseudomonas tabacl) FUNGAL DISEASES: * 1 Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) * 0 Race 1 0 Race 2 0 Race 3 0 Race 4 0 Race 5 Other (Specify) 0 Target Spot (Corynespora cassiicola) Downy Mildew (Peronospora trifoliorum var. manshurica) Powdery Mildew (Microsphaera diffusa) * 0 Brown Stem Rot (Cephalosporium gregatum)		- Contract (Labor,) Mood () Intermediate (Amoor, Diakon)
# 18. MATURITY GROUP: O 3	\star	17. PLANT HABIT:
0 3 1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X ★ 19. DISEASE REACTION: (Enter 0 × Not Tested; 1 = Susceptible; 2 = Resistant) BACTERIAL DISEASES: ★ 0 Bacterial Pustule (Xanthomonas phaseoli var. sojensis) ★ 1 Bacterial Blight (Pseudomonas glycinea) ★ 0 Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: ★ 1 Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) ★ 0 Race 1 0 Race 2 0 Race 3 0 Race 4 0 Race 5 Other (Specify) 0 Target Spot (Corynespora cassilcola) 0 Downy Mildew (Peronospora trifoliorum var. manshurica) Powdery Mildew (Microsphaera diffusa) ★ 0 Brown Stem Rot (Cephalosporium gregatum)		- Destruction (Change of Control
0 3 1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X ★ 19. DISEASE REACTION: (Enter 0 × Not Tested; 1 = Susceptible; 2 = Resistant) BACTERIAL DISEASES: ★ 0 Bacterial Pustule (Xanthomonas phaseoli var. sojensis) ★ 1 Bacterial Blight (Pseudomonas glycinea) ★ 0 Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: ★ 1 Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) ★ 0 Race 1 0 Race 2 0 Race 3 0 Race 4 0 Race 5 Other (Specify) 0 Target Spot (Corynespora cassilcola) 0 Downy Mildew (Peronospora trifoliorum var. manshurica) Powdery Mildew (Microsphaera diffusa) ★ 0 Brown Stem Rot (Cephalosporium gregatum)	*	18 MATURITY GROUP:
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BACTERIAL DISEASES: ***		$9-V1 \qquad 10=V11 11=V111 12=1X \qquad 13=X$
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★ ① Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: ★ ① Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) ★ ② Race 1 ② Race 2 ② Race 3 ② Race 4 ② Race 5 ② Other (Specify) ② Target Spot (Corynespora casslicola) ② Downy Mildew (Peronospora trifoliorum var. manshurica) ② Powdery Mildew (Microsphaera diffusa) ★ ② Brown Stem Rot (Cephalosporium gregatum)		Bacterial Pustule (Xanthomonas phaseoli var. sojensis)
FUNGAL DISEASES: Togeye Leaf Spot (Cercospora sojina) Race 1		★ 1 Bacterial Blight (Pseudomonas glycinea)
★ 1 Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) ★ 0 Race 1 0 Race 2 0 Race 3 0 Race 4 0 Race 5 Other (Specify) Target Spot (Corynespora cassiicola) Downy Mildew (Peronospora trifoliorum var. manshurica) Powdery Mildew (Microsphaera diffusa) Brown Stem Rot (Cephalosporium gregatum)		★ 0 Wildfire (Pseudomonas tabaci)
Frogeye Leaf Spot (Cercospora sojina) Race 1	٠	FUNGAL DISEASES:
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Brown Stem Rot (Cephalosporium gregatum)		Race 4 Trace 5 Cilier (Specily)
[]		Target Spot (Corynespora cassiicola) Downy Mildew (Peronospora trifoliorum var. manshurica)
4 (1 1		Target Spot (Corynespora cassiicola) Downy Mildew (Peronospora trifoliorum var. manshurica)
Stem Canker (Diaporthe phaseolorum var. caulivora)		Target Spot (Corynespora cassiicola) Downy Mildew (Peronospora trifoliorum var. manshurica) Powdery Mildew (Microsphaera diffusa) Brown Stem Rot (Cephalosporium gregatum)
		Target Spot (Corynespora cassiicola) Downy Mildew (Peronospora trifoliorum var. manshurica) Powdery Mildew (Microsphaera diffusa)

19.	DISE	ASES REACTION: (I	Enter 0 = Not Tested; 1 = Susceptible; 2	= Resistant) (Continued)			
	Fl	JNGAL DISEASES: (Co	ntinued)	, , , ,			
*	1	Pod and Stem Blight	(Diaporthe phaseolorum var; sojae)				
	0	Purple Seed Stain (6	Cercospora kikuchii)				
	1	Rhizoctonia Root Rot	(Rhizoctonia solani)				
		Phytophthora Rot (F	Phytophthora megasperma var. sojae)				
*	2	Race 1 0 Race	e 2 2 Race 3 0 Race 4 2	Race 5 0 Race 6	Race 7		
	0	Race 8 0 Race	9 Other (Specify)				
	VI	RAL DISEASES:					
		Bud Blight (Tobacco l	Ringspot Virus)				
	1	Yellow Mosaic (Bean	Yellow Mosaic Virus)				
*	1	Cowpea Mosaic (Cow	pea Chlorotic Virus)				
	1	Pod Mottle (Bean Pod	Mottle Virus)				
*	1	Seed Mottle (Soybean	Mosaic Virus)				
	NE	MATODE DISEASES:			•		
	,	Soybean Cyst Nemator	de (Heterodera glycines)				
*	0	Race 1 0 Race	2 1 Race 3 0 Race 4	Other (Specify)			
	0	Lance Nematode (Hop	Iolaimus Colombus)				
*	0	Southern Root Knot No	ematode (Meloidogyne incognita)				
*	★ 0 Northern Root Knot Nematode (Meloidogyne Hapla)						
	0	Peanut Root Knot Nen	natode (Meloidogyne arenaria)				
	0	Reniform Nematode (#	Rotylenchulus reniformis)				
	OTHER DISEASE NOT ON FORM (Specify)						
20 . i	PHYS	IOLOGICAL RESPON	SES: (ENTER 0 = Not tested, 1 = Suscept	tible, 2 = Resistant)			
*	2	Iron Chlorosis on Calca	areois Soil				
	2	Other (Specify) Met	tribuzin_				
21. 1	NSEC	T REACTION: (ENTE	ER 0 = Not tested, 1 = Susceptible, 2 = Re	sistant)			
		Mexican Bean Beetle	*	•			
	0	Potato Leaf Hopper (En	npoasca fabae)				
	Other (Specify)						
22 1	NIDIC	ATE WHICH VARIETY	MOST CLOSELY RESEMBLES THAT SU	DMITTED			
				T	I MARKE OF MARKET		
		RACTER	NAME OF VARIETY 9042	CHARACTER	NAME OF VARIETY 9042		
		Shape	9042	Seed Coat Luster			
	Leaf S	.		Seed Size	9042		
	Leaf C		9041	Seed shape	9091		
	Leaf S	ize	9042	Seedling Pigmentation	9061		
		•					

Variety Name 90B72

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS I MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE	NO.
				CM Width	CM Length	% Protein	% Oil	G/100 SEED	SEEDS POD
Submitted 90B72	126	2.2	87.1					13.8	3
Name of Similar Variety 9071	125	2.2	79.5					15.1	3

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop. Sci., 13: 420-421
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1:1-19

Exhibit D. Additional Description of the Variety

Soybean Variety 90B72

In Exhibit C we have identified variety 90B72 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 90B72 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 90B72 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

for definition.

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